

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 10,846.

LIVERPOOL F.E. 117946

Date of writing Report 7 JAN. 1942, When handed in at Local Office

Port of

Received at London Office

13 JAN 1942 24 JUN 1942

No. in Survey held at
Reg. Book.

KEIGHLEY

Date, First Survey 23rd SEPT 1941 Last Survey 2 JAN 1942

Number of Visits 4

Single
on the Twin
Triple Screw vessel
Quadruple

M/V. "RN. AIR 2 A."

Tons { Gross
Net

Built at NORTHWICH.

By whom built W. J. ARWOOD & SONS (1938) LTD. Yard No. 662 When built

Owners

Port belonging to

Oil Engines made at KEIGHLEY.

By whom made H. WIDDOP & CO LTD.

ENGINE Contract No. 4117 When made

Generators made at BELFAST.

By whom made H. J. SCOTT & CO LTD.

GENERATOR Contract No. 39945 When made

No. of Sets ONE. Engine Brake Horse Power 7. Nom. Horse Power as per Rule 2. Total Capacity of Generators 3.5 Kilowatts.

OIL ENGINES, &c. Type of Engines VERTICAL SOLID INJECTION. 2 or 4 stroke cycle 4 Single or double acting SINGLE.

Maximum pressure in cylinders 100.135. Diameter of cylinders 4" Length of stroke 4" No. of cylinders ONE No. of cranks ONE.

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 5.125" Is there a bearing between each crank -

Revolutions per minute 1400. Flywheel dia. 18" Weight 1.1 cwt. Means of ignition COMPRESSION Kind of fuel used HEAVY OIL.

Crank Shaft, dia. of journals as per Rule APPROVED. as fitted 2.25" Crank pin dia. 2.25" Crank Webs Mid. length breadth 3" Thickness parallel to axis SOLID.

Flywheel Shaft, diameter as per Rule as fitted Intermediate Shafts, diameter as per Rule as fitted Thickness of cylinder liners 5/16"

Is there a governor or other arrangement fitted to prevent racing of the engine when declutched YES Means of lubrication FORCED.

Are the cylinders fitted with safety valves NO Are the exhaust pipes and silencers water cooled or lagged with non-conducting material -

Cooling Water Pumps, No. ONE. Is the sea suction provided with an efficient strainer which can be cleared within the vessel -

Lubricating Oil Pumps, No. and size ONE. 5/8" DIA. 1/4" STROKE.

Air Compressors, No. ONE. No. of stages ONE. Diameters 4.5" Stroke 2.75" Driven by AIR. ENGINE.

Sucking Air Pumps, No. - Diameter - Stroke - Driven by -

RECEIVERS: Have they been made under Survey State No. of Report or Certificate

Each receiver, which can be isolated, fitted with a safety valve as per Rule

Are the internal surfaces of the receivers be examined What means are provided for cleaning their inner surfaces

Is there a drain arrangement fitted at the lowest part of each receiver

High Pressure Air Receivers, No. Cubic capacity of each Internal diameter thickness

Material Range of tensile strength Working pressure by Rules

Sucking Air Receivers, No. Total cubic capacity Internal diameter thickness

Material Range of tensile strength Working pressure by Rules

ELECTRIC GENERATORS: Type

Voltage of supply 220. volts. Full Load Current 15.8 Amperes. Direct or Alternating Current DIRECT

Alternating current system, state the periodicity Has the Automatic Governor been tested and found as per rule when full load is suddenly thrown on and off YES

Generators, are they compounded as per rule YES is an adjustable regulating resistance fitted in series with each

field Are all terminals accessible, clearly marked, and furnished with sockets

Are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched YES

If generators are under 100 kw. full load rating, have the Makers supplied certificates of test and do the results comply with the requirements

If generators are 100 kw. or over have they been built and tested under survey

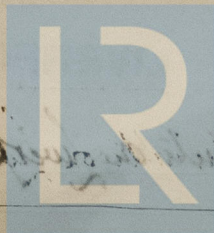
VS. Are approved plans forwarded herewith for Shafting 13-11-1941 Receivers Separate Tanks

GEAR AS PER RULE REQUIREMENTS.

The foregoing is a correct description,

For M. WIDDOP & COMPANY LTD.

Manufactured



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Lloyd's Register
Foundation

009682-009688-0253

Dates of Survey while building

1941. SEPT. 23. OCT. 9. DEC 26. 1942 JAN 5.

During progress of work in shops - -
During erection on board vessel - - -
Total No. of visits

4.

Dates of Examination of principal parts—Cylinders

23.9.41.

Covers 9.10.41.

Pistons 23.9.41.

Piston rods

Connecting rods

23.9.41.

Crank and Flywheel shafts

23.9.41.

Intermediate shafts

Crank and Flywheel shafts, Material

OH. INGT STEEL.

Identification Marks

LLOYDS. 15 HTM. 1-3.40

Intermediate shafts, Material

Identification Marks

Identification marks on Air Receivers

Is this machinery duplicate of a previous case -/ES ✓ If so, state name of vessel J. POLLACK & SONS. 1494. MCH RPT. 10815

General Remarks (State quality of workmanship, opinions as to class, &c.)
THIS ENGINE HAS BEEN CONSTRUCTED UNDER SPECIAL SURVEY OF TESTED MATERIALS AND IS IN ACCORDANCE WITH THE SECRETARY'S LETTERS, APPROVED PLANS AND RULE REQUIREMENTS. THE MATERIALS AND WORKMANSHIP ARE OF A GOOD QUALITY AND THE ENGINE WHEN TESTED IN SHOP UNDER FULL LOAD CONDITIONS SHOWN SATISFACTORY RESULTS. IN MY OPINION THIS ENGINE IS SUITABLE TO BE PLACED ON BOARD A VESSEL, CLASSED WITH THIS SOCIETY, FOR THE PURPOSE INTENDED.

Im. 4.38.—Transfer, (MAD AND PRINTED IN ENGLAND)
(The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee £

Travelling Expenses (if any) £

When applied for

19

When received,

19

Committee's Minute

LIVERPOOL

23 JUN 1942

Assigned See Minute on Liverpool I.E. Machinery Rpt.

Reister

Surveyor to Lloyd's Register of Shipping.



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